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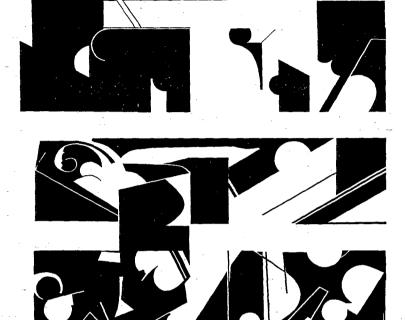
- Nucleic Acid Technologies Foundation
- Vice President for Research, State University of New York, Albany

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- American Cyanamid Company
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# The 1991 Albany Conference was organized by:

- Center for Molecular Genetics, University at Albany
   SUNY
- Albany Medical College
- Sterling Research Group
- Nucleic Acid Technologies Foundation



SEPTEMBER 12-15, 1991

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#### THE ALBANY CONFERENCES

For information concerning this conference or future conferences contact:

The Albany Conferences

P.O. Box 8836 • Albany, NY 12208-0836

Phone 518-442-4327 • FAX: 518-442-4767

### Scientific Sessions

Scientific sessions will be held in the Guggenheim Pavilion auditorium on the following schedule:

Thursday 8 pm Welcome

Keynote Lecture

Friday 9 am Regulation of aerobic and

anaerobic gene expression

in prokaryotes

3-5 pm Poster Session

7:30 pm Regulation of aerobic and

anaerobic gene expression

in eukaryotes

Saturday 9 am Oxidative stress response (1)

2:30 pm Workshops 4-5 pm Poster Session

7:30 pm Oxidative stress response (II)

Sunday 9 am Clinical implications

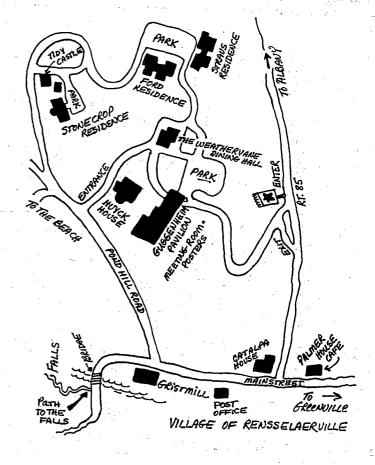
Activities and additional workshops will be announced at each morning session.

#### Meals'

Meals will be served in the Weathervane Restaurant on the following schedule:

Friday, Saturday, Sunday
Friday
Cookout
1:30 pm
Saturday
Lunch
1-2 pm
Sunday
Lunch
Thursday, Friday, Saturday
Dinner
5:30-7 pm

Refreshments will be served in the Guggenheim Pavilion, mid-way through the morning sessions and during the poster sessions. A cash bar will be available from 4-5:30 pm on the first floor of Huyck residence, and during the evening meals in the Weathervane Restaurant. In addition, beer and soda are available in the Ford, Huyck, Stonecrop and Straus residences on a pay-asyou-go basis.



#### **ACKNOWLEDGEMENTS**

Organizing Committee

Harry W. Taber Albany Medical College

Richard P. Cunningham
David A. Shub
Richard Zitomer
University at Albany • SUNY

Alan M. Ezrin Robert J. Gordon Sterling Research Group

Conference Committee

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Program and Poster Design

Carole A. Keith

Blue and white 5 by Takeshi Kawashima

Our thanks to the staff of the Rensselaerville Institute Conference Center, Rensselaerville, NY.



Thursday Evening

8:00 PM

Welcome

David A. Shub
Center for Molecular Genetics
University at Albany • SUNY

Introduction of Keynote Speaker

Harry W. Taber Albany Medical College

Keynote Address

Irwin Fridovich

Duke University Medical School

Superoxide sensitive enzymes and
a circuit breaker.

9:00 AM

NOTES

REGULATION OF AEROBIC AND ANAEROBIC GENE EXPRESSION IN PROKARYOTES Valley Stewart, Chair

#### E.C.C. Lin

Harvard University Medical School
The arc system controlling aerobic pathways in
Escherichia coli.

John R. Guest

University of Sheffield

FNR and oxygen-regulated gene expression in

Escherichia coli.

August Böck
University of Munich
Regulation of fermentative metabolism in
Escherichia coli. The formate regulon.

Robert P. Gunsalus
University of California, Los Angeles
Coordinate regulation of aerobic and
anaerobic electron transport pathway genes
in facultative bacteria (Escherichia coli).

Valley Stewart

Cornell University

Nitrate regulation of anaerobic respiratory
gene expression in Escherichia coli.

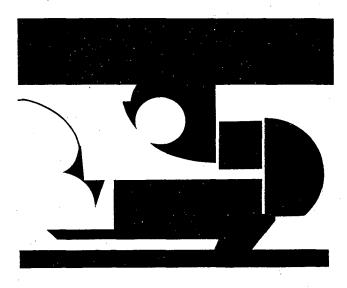


9:00 AM

CLINICAL IMPLICATIONS
John W. Eaton, Chair

Bruce A. Freeman
University of Alabama
Metabolism of reactive oxygen species in the intravascular compartment.

John M. Shoffner
Emory University School of Medicine
Oxidative phosphorylation diseases:
Clinical and genetic implications.



Irwin Fridovich
Duke University Medical School
Conference Overview



Friday Evening

7:30 PM

REGULATION OF AEROBIC AND ANAEROBIC GENE EXPRESSION IN EUKARYOTES Richard S. Zitomer, Chair

Richard S. Zitomer

University at Albany • SUNY

Regulation of gene expression by heme in yeast.

Thomas D. Fox
Cornell University
Translational control of yeast mitochondrial
gene expression.

Jerry S. Powell

University of California, Davis Medical Center

Regulation of erythropoietin gene
transcription by hypoxia.

Elizabeth C. Theil

North Carolina State University

Iron regulation of ferritin synthesis:
A model for mRNA structure and function.

# OXIDATIVE STRESS RESPONSE (I) Richard P. Cunningham, Chair

Kelvin J.A. Davies

Albany Medical College

Defense and repair systems in oxidative stress.

Peter C. Loewen

University of Manitoba

Regulation of expression of katF, encoding a putative  $\sigma$  factor in Escherichia coli.

Gisela Storz
National Institute of Child Health
& Human Development
OxyR, a regulator of hydrogen
peroxide-inducible genes.

Bernard Weiss
University of Michigan Medical School
The soxRS (superoxide response) regulon of
Escherichia coli.

Susan S. Wallace

University of Vermont

Processing of oxidative DNA damage in

Escherichia coli.

Saturday Afternoon

2:30 PM

WORKSHOP Alan M. Ezrin Robert J. Gordon Reperfusion Injury OXIDATIVE STRESS RESPONSE (II)
Kelvin J.A. Davies, Chair

Daniele Touati
University of Paris VII
Regulation and protective role of the
Escherichia coli superoxide dismutases.

John W. Eaton
University of Minnesota
Oxidant defenses of colonial bacteria:
Competitive weapon systems?

Nikki J. Holbrook

National Institute on Aging

The gadd genes, a novel set of mammalian stress response genes: Regulation by oxidative stress, DNA damage and growth arrest.

Paul W. Doetsch
Emory University School of Medicine
Repair of oxidative DNA damage
in eukaryotes.

